

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/013630

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G10L19/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 95/30983 A (GEORGIA TECH RESEARCH CORPORATION) 16 November 1995 (1995-11-16) cited in the application page 3, line 35 - page 4, line 23 page 5, line 11 - line 12; claim 3; figures 1,17,28 page 10, line 3 - page 12, line 10	1,12,13, 15,16
Y	DAVID P A M-S ET AL: "Refining the digital spectrum" CIRCUITS AND SYSTEMS, 1996., IEEE 39TH MIDWEST SYMPOSIUM ON AMES, IA, USA 18-21 AUG. 1996, NEW YORK, NY, USA, IEEE, US, vol. 2, 18 August 1996 (1996-08-18), pages 767-770, XP010222730 ISBN: 0-7803-3636-4 page 770, right-hand column, line 15 - line 24 ----- -/-	1,12,13, 15,16

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

21 March 2005

Date of mailing of the international search report

06/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Dobler, E

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/013630

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WIM D'HAES: "A highly optimized nonlinear least squares technique for sinusoidal analysis: From $O(K^2N)$ to $O(N\log(N))$ " PREPRINT OF THE 116TH CONVENTION OF THE AUDIO ENGINEERING SOCIETY, 8 May 2004 (2004-05-08), - 11 May 2004 (2004-05-11) pages 1-12, XP009045173 BERLIN, GERMANY	2-5,8
P,Y	page 1, line 1 - page 11, left-hand column, line 8; figures 1-3	6,7
A		9,10,14, 17,18
Y	----- T KARVONEN: "Gauss-Newton-Levenberg-Marquardt-method" Online! 17 May 2003 (2003-05-17), pages 1-5, XP002321797 Retrieved from the Internet: URL: http://www.water.hut.fi/~tkarvone/sgh_544.htm 'retrieved on 2005-03-14! page 2, line 20 - line 21 page 3, line 1 - line 8	6,7
X	----- MENGT: "Lecture 5: Discrete Fourier Transform" HANDOUT AT STANFORD UNIVERSITY, 9 February 2003 (2003-02-09), XP002275706 page 5, line 12 - page 6, line 8	11
P,A	----- WIM D'HAES: "A highly optimized method for computing amplitudes over a windowed short time signal : From $O(K^2N)$ to $O(N\log(N))$ " PROCEEDINGS OF THE FOURTH IEEE BENELUX SIGNAL PROCESSING SYMPOSIUM, April 2004 (2004-04), pages 1-4, XP009045189 HILVARENBEEK, THE NETHERLANDS the whole document	1-18

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/013630

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9530983	A	16-11-1995	US	5504833 A		02-04-1996
			EP	0759201 A1		26-02-1997
			WO	9530983 A1		16-11-1995
<hr/>						